Attorney Docket No.: COOL-00901

## **AMENDMENT**

## IN THE CLAIMS:

Please withdraw Claims 36-46, 58-69 and 71-132.

- 1 1. (Original) An apparatus for preventing cracking of a liquid system, comprising: 2 at least one heat exchanger; 3 at least one inlet port extending through a first opening for conveying a fluid to a plurality 4 of channels and passages; 5 at least one outlet port extending through a second opening for discharging the fluid from 6 the plurality of channels and passages; and 7 one or more compressible objects coupled to the inlet and outlet ports in an unpressured condition such that the compressible objects reduce a volume of the inlet port and the 8 9 outlet port and further wherein pressure exerted on the compressible object increases a 10 volume of the inlet port and the outlet port.
- 1 2. (Original) The apparatus of claim 1, wherein the compressible objects accommodate a predetermined level of fluid expansion.
- 1 3. (Original) The apparatus of claim 2, wherein the predetermined level of fluid expansion is between 5 to 25 percent.
- 1 4. (Original) The apparatus of claim 1, wherein the compressible objects being capable of contracting and expanding between a minimum volume and a maximum volume.
- 1 5. (Original) The apparatus of claim 1, wherein the compressible objects being secured within the inlet port and the outlet port.
- 1 6. (Original) The apparatus of claim 1, wherein the compressible objects are confined within the inlet port and the outlet port.

- 1 7. (Original) The apparatus of claim 1, wherein the compressible objects are made of one of the following: sponge, foam, air-filled bubbles, or balloons.
- (Original) The apparatus of claim 7, wherein the sponge or foam is hydrophobic.
- (Original) The apparatus of claim 1, wherein the compressible object is encapsulated in a
  gas or liquid impermeable package.
- 1 10. (Original) The apparatus of claim 9, wherein the package is formed of metallic barrier material or metallized plastic sheet material.
- 1 11. (Original) The apparatus of claim 9, wherein the package has a hydrophilic surface or coating.
- 1 12. (Original) The apparatus of claim 9, wherein the package is formed of plastic material.
- 1 13. (Original) The apparatus of claim 12, wherein the plastic material is selected from the group teflon, mylar, PET, PEN, PVC, or other suitable plastic materials.
- 1 14. (Original) An apparatus for preventing cracking of a liquid system, comprising:
- at least one heat exchanger having a top element and a bottom element;
- a plurality of channels and passages formed within the bottom element to provide flow of
- 4 a fluid therethrough; and
- one or more compressible objects positioned within one or more of the channels and
- 6 passages such that in an uncompressed state the compressible objects reduce a volume of
- 7 each of the channels and passages having compressible objects and further wherein under
- 8 pressure exerted within the channels and passages the compressible objects are
- 9 compressed to increase the volume of each of the channels and passages.
- 1 15. (Original) The apparatus of claim 14, wherein the compressible objects accommodate a predetermined level of fluid expansion.

(Original) The apparatus of claim 15, wherein the predetermined level of fluid expansion 16. 1 . 2 is between 5 to 25 percent. (Original) The apparatus of claim 14, wherein the compressible objects being capable of 17. . 1 contracting and expanding between a minimum volume and a maximum volume. 2 1 18. (Original) The apparatus of claim 14, wherein the compressible objects being positioned 2 with a portion of the top element. 1 19. (Original) The apparatus of claim 14, wherein the compressible objects are made of one 2 of the following: sponge, foam, air-filled bubbles, or balloons. (Original) The apparatus of claim 14, wherein the compressible objects are encapsulated 1 20. 2 in a gas or liquid impermeable package. 1 21. (Original) The apparatus of claim 20, wherein the package is formed of metallic barrier 2 material or metallized plastic sheet material. 22. (Original) The apparatus of claim 20, wherein the package has a hydrophilic surface or 1 2 coating. 23. (Original) The apparatus of claim 20, wherein the package is formed of plastic material. 1 1 24. (Original) The apparatus of claim 23, wherein the plastic material is selected from the 2 group teflon, mylar, PET, PEN, PVC, or other suitable plastic materials. 1 25. (Original) An apparatus for preventing cracking of a liquid system, comprising: 2 an enclosure; and 3 one or more compressible objects immersed in the enclosure. (Original) The apparatus of claim 25, wherein the objects accommodate a predetermined 1 26.

2

level of fluid expansion.

Attorney Docket No.: COOL-00901

- 1 27. (Original) The apparatus of claim 26, wherein the predetermined level of fluid expansion is between 5 to 25 percent.
- Original) The apparatus of claim 25, wherein the objects having a size and volume proportion to an amount of fluid in the enclosure.
- 1 29. (Original) The apparatus of claim 25, wherein the objects are a hydrophobic foam.
- 1 30. (Original) The apparatus of claim 25, wherein the object are a hydrophobic sponge.
- 1 31. (Original) The apparatus of claim 25, wherein the objects are made of one of the following: sponge, foam, air-filled bubbles, or balloons.
- 1 32. (Original) The apparatus of claim 25, wherein the objects are encapsulated in a gas or liquid impermeable package.
- 1 33. (Original) The apparatus of claim 32, wherein the package is formed of metallic barrier material or metallized plastic sheet material.
- 1 34. (Original) The apparatus of claim 32, wherein the package is formed of plastic material.
- 1 35. (Original) The apparatus of claim 34, wherein the plastic material is selected from the group teflon, mylar, PET, PEN, PVC, or other suitable plastic materials.
- 1 36-46 (Withdrawn)
- 1 47. (Original) A method of preventing cracking of a liquid system, the system including one or more pumps and one or more heat exchangers, the method comprising the steps of:
- 3 providing an enclosure; and
- 4 immersing one or more compressible objects in the enclosure.
- 1 48. (Original) The method of claim 47, wherein the objects accommodate a predetermined level of fluid expansion.

## Attorney Docket No.: COOL-00901

- 1 49. (Original) The method of claim 48, wherein the predetermined level of fluid expansion is between 5 to 25 percent.
- 1 50. (Original) The method of claim 47, wherein the objects having a size and volume proportion to an amount of fluid in the enclosure.
- 1 51. (Original) The method of claim 47, wherein the objects are a hydrophobic foam.
- 1 52. (Original) The method of claim 47, wherein the objects are a hydrophobic sponge.
- 1 53. (Original) The method of claim 47, wherein the objects are made of one of the following: 2 sponge, foam, air-filled bubbles, or balloons.
- 1 54. (Original) The method of claim 47, wherein the objects are encapsulated in a gas or liquid impermeable package.
- 1 55. (Original) The method of claim 54, wherein the package is formed of metallic barrier material or metallized plastic sheet material.
- 1 56. (Original) The method of claim 54, wherein the package is formed of plastic material.
- 2 57. (Original) The method of claim 56, wherein the plastic material is selected from the group teflon, mylar, PET, PEN, PVC, or other suitable plastic materials.
- 1 58-69 (Withdrawn).
- 1 70. An apparatus for preventing cracking of a liquid system, the system including one or more pumps and one or more heat exchangers, comprising an enclosure, wherein the enclosure being capable of contracting and expanding between a minimum size and volume condition and a maximum size and volume condition.
- 1 71-132 (Withdrawn).